What is claimed is:

1. A method of correcting for malfunctioning ink ejection elements in a printing system using a single pass over a recording medium, comprising:

obtaining a standard printmask;

identifying ink ejection elements which are malfunctioning;

ascertaining ink ejection elements adjacent to the ejection elements which are

10 malfunctioning;

selecting particular adjacent ink ejection elements from the adjacent ink ejection elements; and

modifying the standard printmask by adjusting the amount of ink deposited by the selected adjacent ink ejection elements to create a modified printmask.

- 2. The method of claim 1 wherein said obtaining includes obtaining data specifying a pixel grid of rows and columns.
- 3. The method of claim 1 wherein said obtaining includes obtaining data specifying the ink ejection element used to print a particular pixel location.
- 4. The method of claim 1 wherein said obtaining includes obtaining the printmask from a printer driver.
- 5. The method of claim 1 wherein said obtaining includes obtaining the printmask from a printer memory.
 - 6. The method of claim 1 wherein said identifying includes using an acoustical drop ejection detection to identify malfunctioning ink ejection elements.

- 7. The method of claim 1 wherein said identifying includes using an optical drop ejection detect to identify malfunctioning ink ejection elements.
- 8. The method of claim 7 wherein the optical drop detect includes passing a light 5 beam from a light source to a light sensor through the path of ink droplets from the ink ejection chambers to the recording medium.
 - 9. The method of claim 7 wherein the optical drop detect includes passing a light beam from a light source to the medium which is reflected to a light sensor thereby determining if a ink droplet has been deposited on the recording medium.
 - 10. The method of claim 1 wherein said ascertaining the adjacent ink ejection elements are determined from the standard printmask.
 - 11. The method of claim 1 wherein in said ascertaining the adjacent ink ejection elements are determined using a look-up table.
 - 12. The method of claim 1 wherein in said ascertaining the adjacent ink ejection elements are determined from a printer memory.
 - 13. The method of claim 1 wherein in said ascertaining the adjacent ink ejection elements are determined from a printer driver.
- 14. The method of claim 1 wherein said selecting includes selecting an adjacent ink ejection element in a row above the malfunctioning ink ejection element.
 - 15. The method of claim 1 wherein said selecting includes selecting an adjacent ink ejection element in a row below the malfunctioning ink ejection element.

- 16. The method of claim 1 wherein said selecting includes selecting an adjacent ink ejection element in a row above and in a row below the malfunctioning ink ejection element.
- 17. The method of claim 1 wherein said modifying includes increasing the ink
 5 deposited by the selected adjacent ink ejection elements by the amount of ink that would be deposited by the ink ejection element that is malfunctioning.
 - 18. The method of claim 1 wherein said modifying includes increasing the ink deposited by the selected adjacent ink ejection elements into empty pixels before depositing additional ink to pixels deposited with ink.
 - 19. The method of claim 1 wherein said modifying includes not increasing the ink deposited by the selected adjacent ink ejection elements above a predetermined maximum ink level for a pixel.
 - 20. The method of claim 1 further including ejecting ink drops onto the recording medium in a single pass over the recording medium in accordance with the modified printmask.